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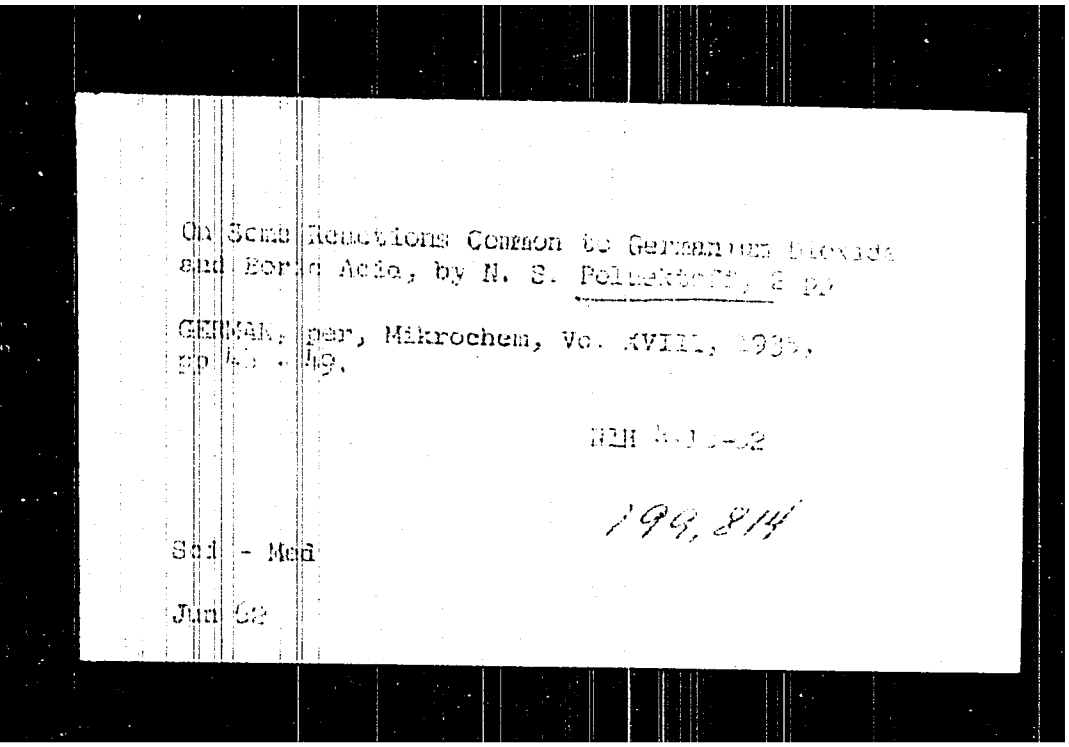

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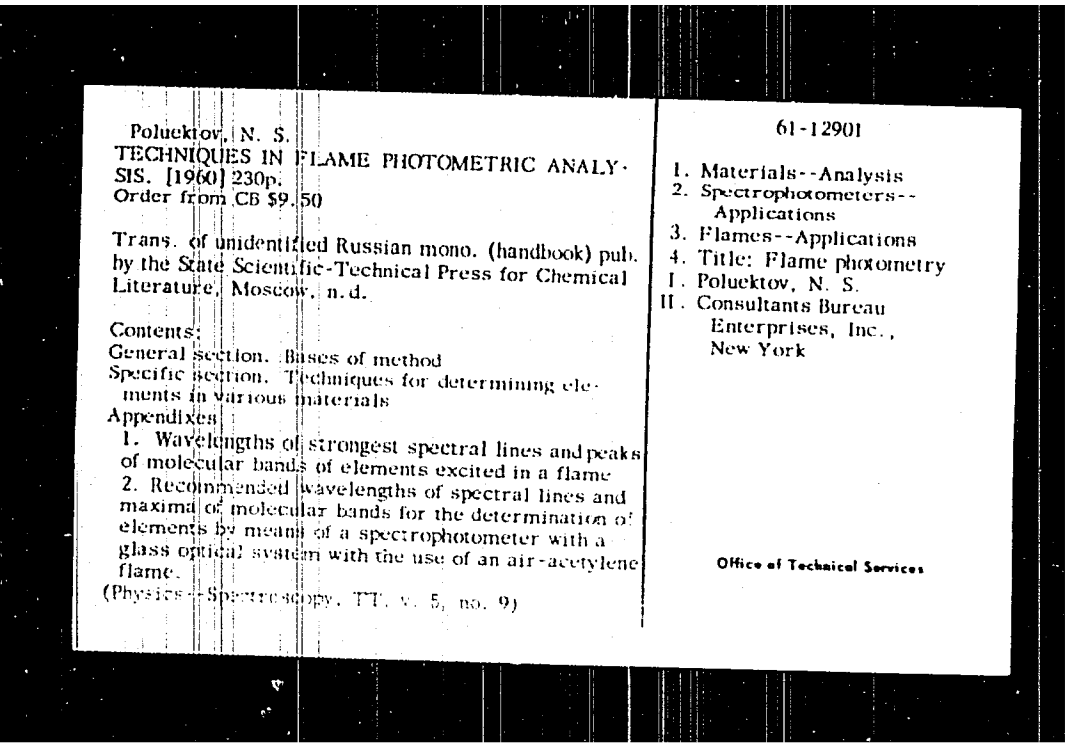

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Appendixes
1. Wavelengths of strongest spectral lines and peaks of molecular bands of elements excited in a flame
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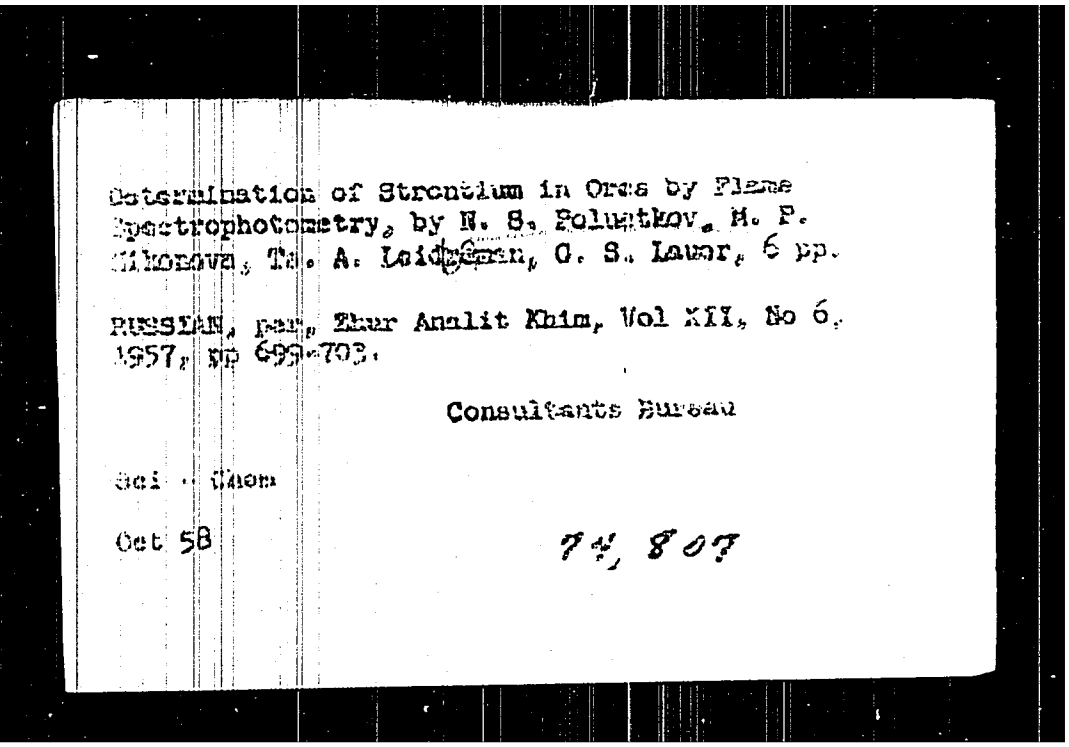

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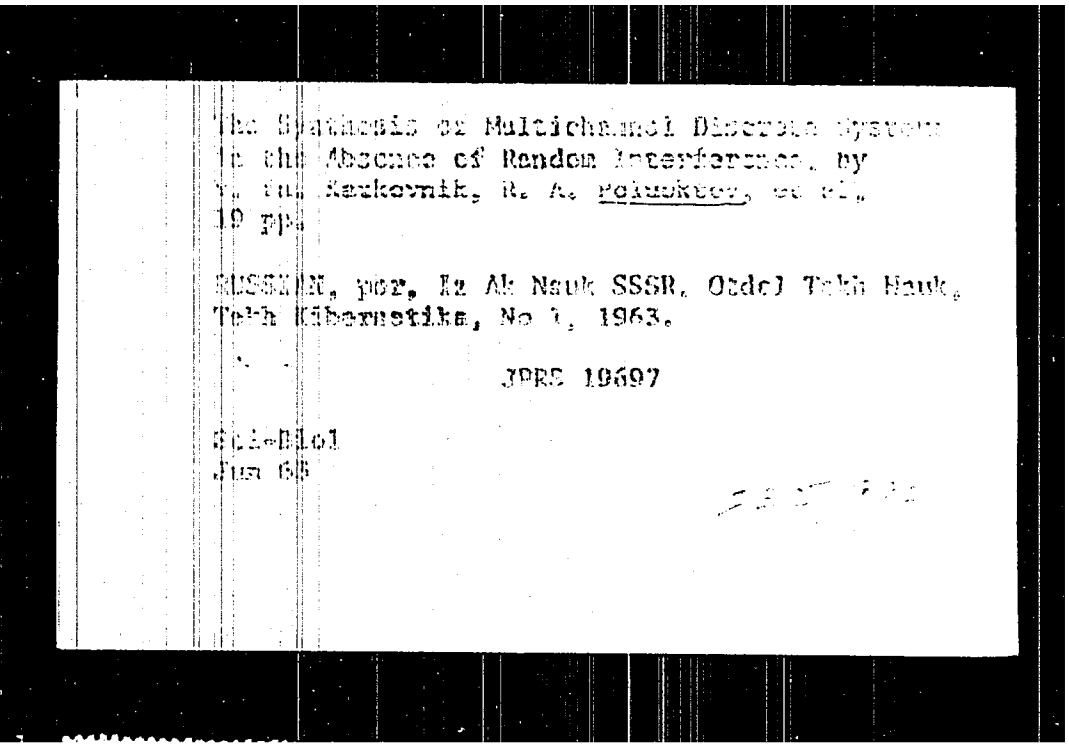

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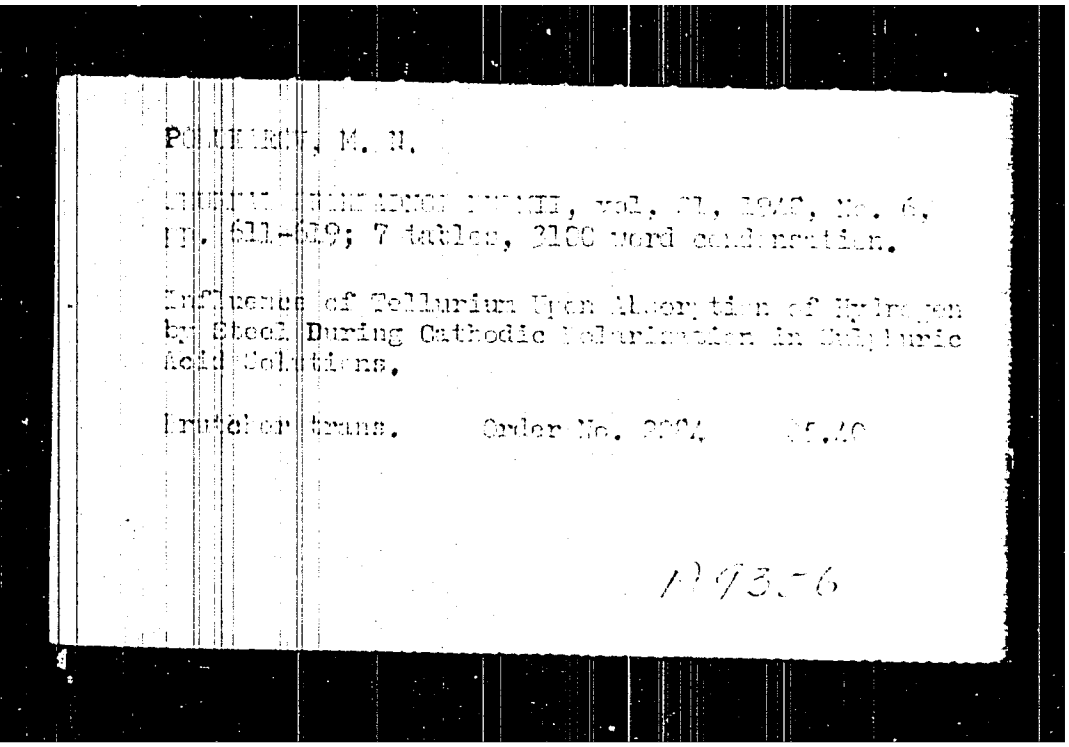

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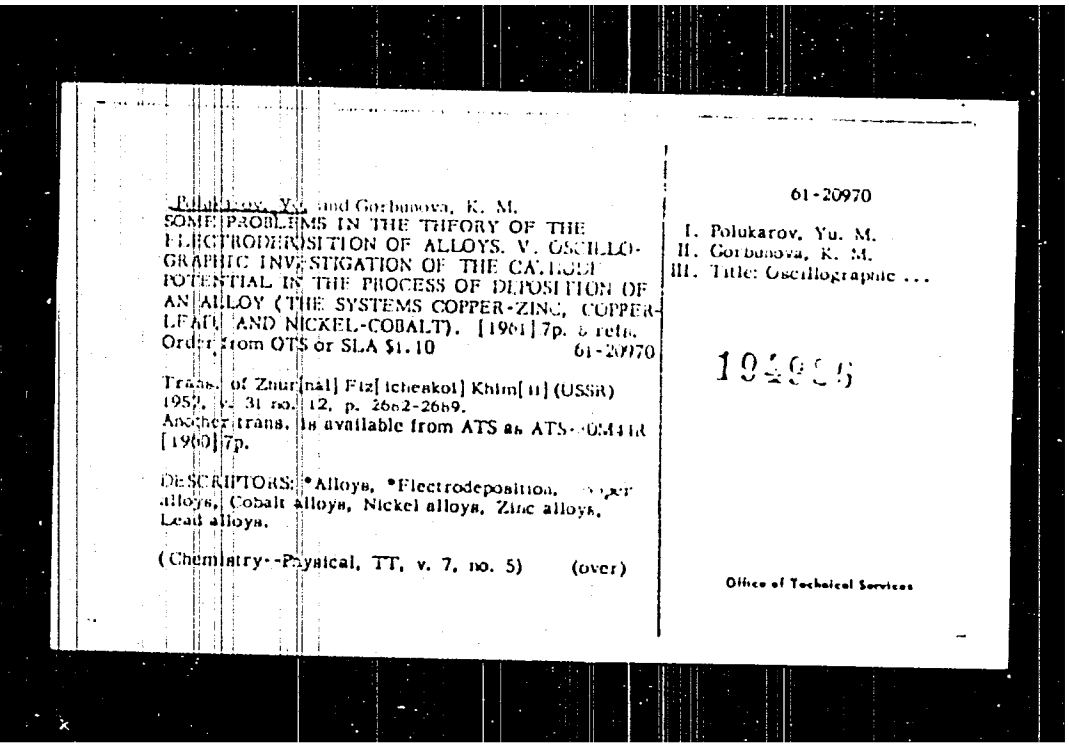

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SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. V. OSCILLOGRAPHIC INVESTIGATION OF THE CATHODE POTENTIAL IN THE PROCESS OF DEPOSITION OF AN ALLOY (THE SYSTEMS COPPER-ZINC, COPPER-LEAD, AND NICKEL-COBALT). [1961] 7p. 6 refs. Order from OTS or SLA $1.10 61-20970

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1957, v. 31 no. 12, p. 2662-2669.
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DESCRIPTORS: *Alloys, *Electrodeposition, Copper alloys, Cobalt alloys, Nickel alloys, Zinc alloys, Lead alloys.

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I. Polukarov, Yu. M.
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III. Title: Oscillographic ...

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SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. III. CONDITIONS FOR THE EQUALIZATION OF POTENTIALS OF METAL SEPARATION AT THE EXPENSE OF ENERGY LIBERATED DURING THE FORMATION OF AN ALLOY. [1961] 4p. 2 refs.
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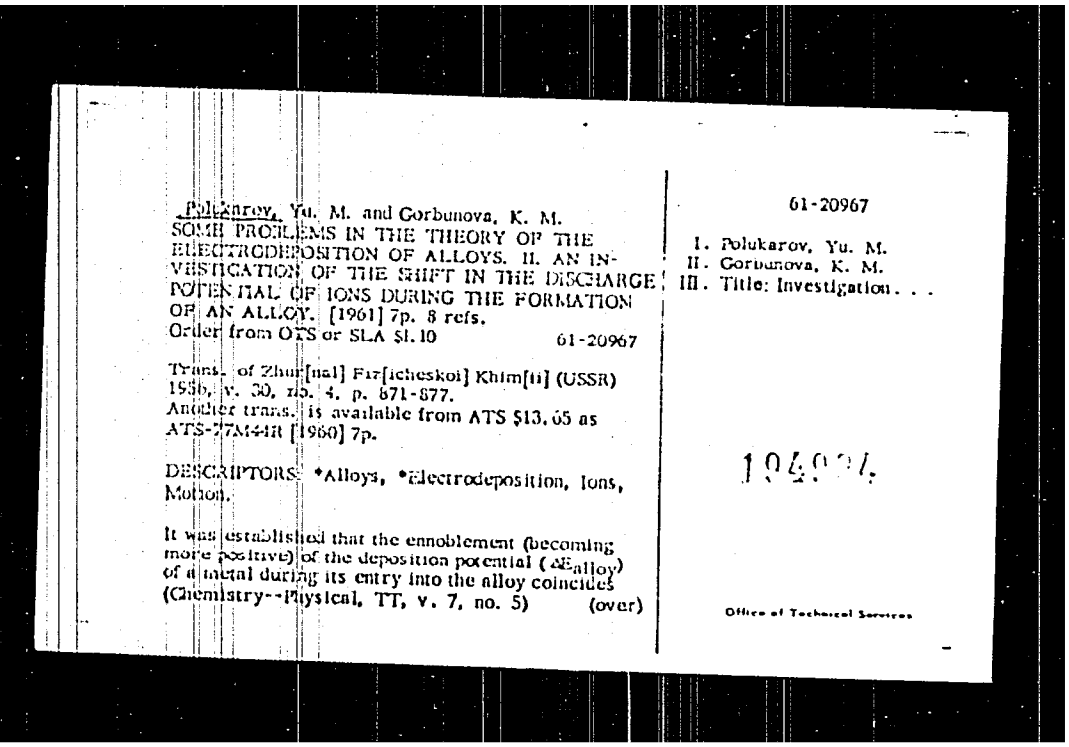

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Order from OTS or SLA $1.10 61-20967

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 4, p. 871-877.
Another trans. is available from ATS $13.65 as ATS-27M-4R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Ions, Motion.

It was established that the ennoblement (becoming more positive) of the deposition potential (ΔE_{alloy}) of a metal during its entry into the alloy coincides (Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20967

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Investigation. . .

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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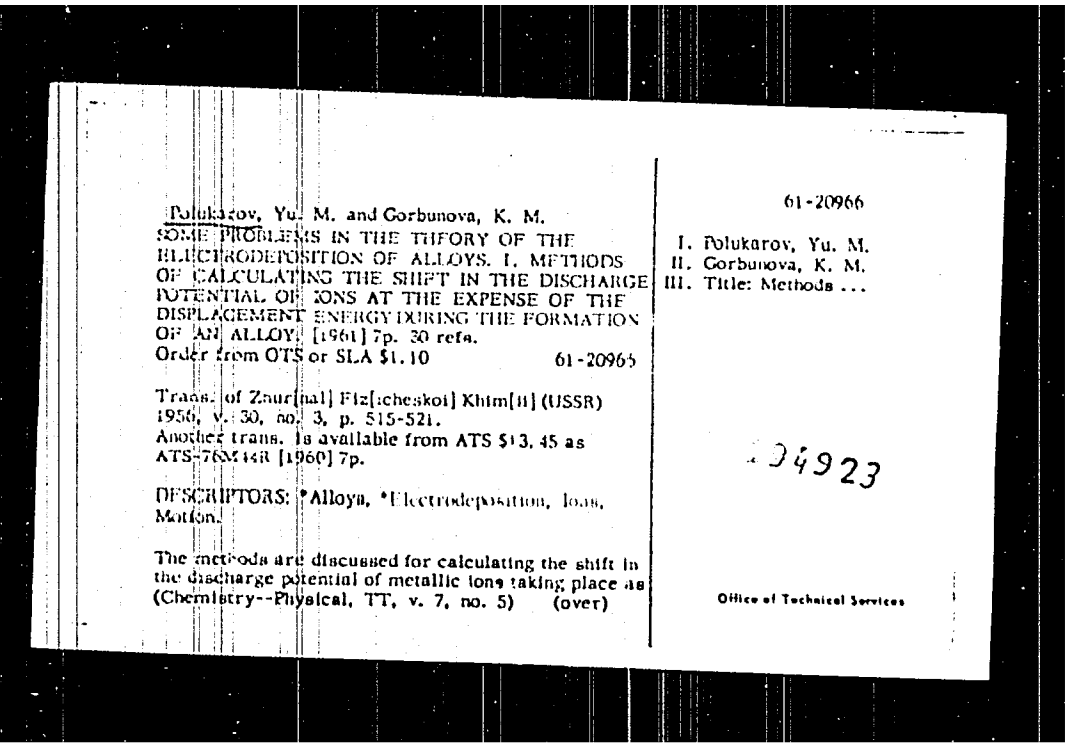

Polukarov, Yu. M. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. I. METHODS OF CALCULATING THE SHIFT IN THE DISCHARGE POTENTIAL OF IONS AT THE EXPENSE OF THE DISPLACEMENT ENERGY DURING THE FORMATION OF AN ALLOY. [1961] 7p. 30 refs.
Order from OTS or SLA $1.10 61-20966

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 3, p. 515-521.
Another trans. is available from ATS $13.45 as ATS-76M44R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Ions, Motion.

The methods are discussed for calculating the shift in the discharge potential of metallic ions taking place as (Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20966

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Methods ...

24923

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

The Structure and Magnetic Characteristics of Electrolytic Deposits of Ferromagnetic Metals and Alloys Depending Upon Conditions Existing During the Preparation of These Deposits. I. Nickel, by Yu. M. Polukarov, 13 pp.

RUSSIAN, per, Zhurnal Fiz Khim, Vol XXXII, No 5, 1958, pp 1088-1015.

CIA/FDD XX-653
CIA/FDD XX-681
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Sci - Physics, Min/met
Sep 59

98,064

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

The Phenomenon of the Formation of Electrode Zones During the Electrocrystallization of Metals, by V. V. Bondar', Yu. M. Makarov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 3, 1958, pp 552-553.

Consultants Bureau

Sci - Chem

22/6/59

89,996

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

Polukarov, Yu. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. V. OSCILLOGRAPHIC INVESTIGATION OF THE CATHODE POTENTIAL IN THE PROCESS OF DEPOSITION OF AN ALLOY (THE SYSTEMS COPPER-ZINC, COPPER-LEAD, AND NICKEL-COBALT). [1961] 7p. 6 refs.
Order from OTS or SLA $1.10 61-20970

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1957, v. 31 no. 12, p. 2682-2689.
Another trans. is available from ATS as ATS-60M44R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Copper alloys, Cobalt alloys, Nickel alloys, Zinc alloys, Lead alloys.

61-20970

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Oscillographic ...

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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PB- 61-20970

During the deposition of copper-lead and nickel-cobalt alloys, changes in potential that are observed have a large period of fluctuation, within which fluctuations of smaller period occur. The large periods of change in cathode potential noted in oscillograms obtained during the deposition of nickel-cobalt and copper-lead alloys correspond to the time for the formation of one layer in the deposits. In order to ascertain the nature of the variations in potential in the process of deposition of an alloy which is accompanied by the evolution of hydrogen, oscillograms were obtained for the process of discharge of ions of hydrogen on copper and zinc from a cyanide solution, and it was shown that the cathode potential varies periodically during the discharge of the hydrogen ions. The fluctuations in potential with a short period during the deposition of alloys are due to the evolution of hydrogen. No substantial difference was found in the nature of the changes in cathode potential during the process of discharge of ions with the formation of an alloy that can be related to the different types of fusion diagrams. (Author) (See also 61-20966)

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

The Structure and Magnetic Characteristics of Electrolytic Deposits of Ferromagnetic Metals and Alloys Prepared Under Different Conditions. II. Dependence of the Structure and Coercive Force of Cobalt Deposits on the Electrochemical Conditions of Their Preparation, by Yu. M. Polukarov, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIV, No 1, 1960, pp 150-156.

Cleaver-Hume Press 127,617

Sci
Sep 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

Some Problems in the Theory of Electro-Deposition of Alloys IV. Oscillographic Study of Cathode Potential in the Process of Alloy Deposition, by Yu. M. Polukarov, K. M. Gorbunova, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2281-2286.

SLA 59-19566

119,057

Sci
Jun 60
Vol III, No 5

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

Polukarov, Yu. M. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. III. CONDITIONS FOR THE EQUALIZATION OF POTENTIALS OF METAL SEPARATION AT THE EXPENSE OF ENERGY LIBERATED DURING THE FORMATION OF AN ALLOY. [1961] 4p. 2 ref's.
Order from OTS or SLA $1.10 61-20968

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 4, p. 878-881.
Another trans. is available from ATS $8.00 as ATS-78M44R [1960] 4p.

DESCRIPTORS: *Alloys, *Electrodeposition, Metals, Separation, Energy, Metallurgical analysis.

The problem of the relationship between the magnitudes of the shift in the ion discharge potential of
(Chemistry--Physical, TT, v. 7, no.) (over)

61-20968

I. Polukarov, Yu. M.
II. Gorbunova, K. M
III. Title: Conditions . . .

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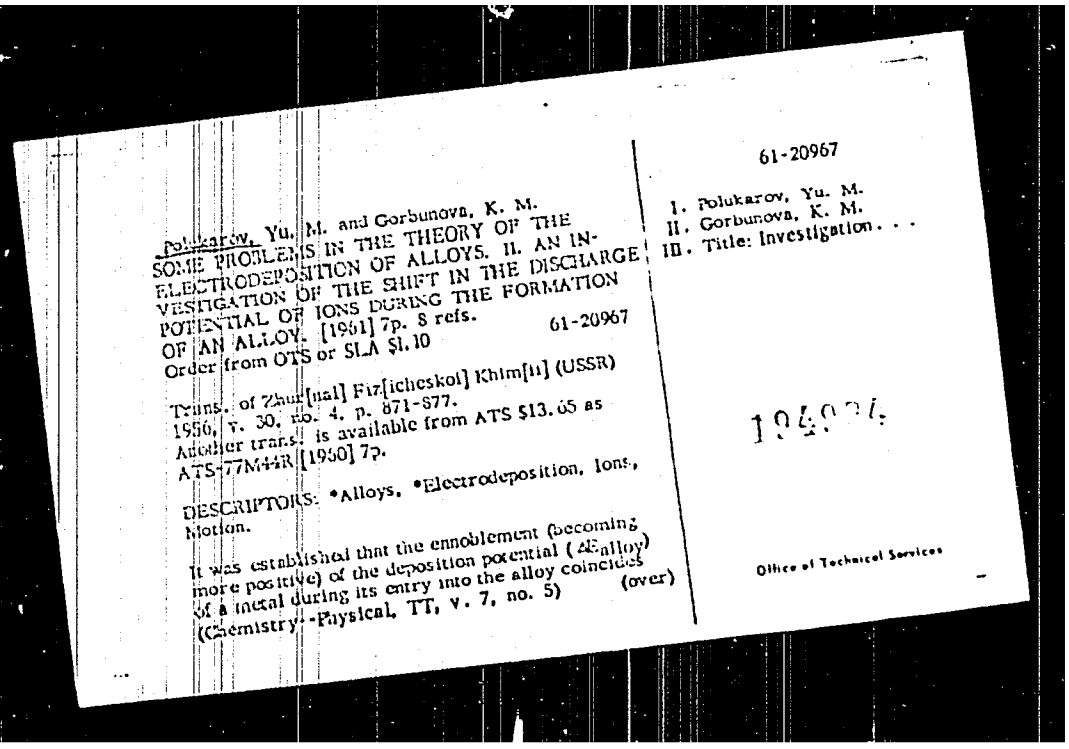

Polukarov, Yu. M. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. II. AN INVESTIGATION OF THE SHIFT IN THE DISCHARGE POTENTIAL OF IONS DURING THE FORMATION OF AN ALLOY. [1961] 7p. 8 refs.
Order from OTS or SLA $1.10 61-20967

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 4, p. 871-877.
Another trans. is available from ATS $13.65 as ATS-57M44R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Ions, Motion.

It was established that the ennoblement (becoming more positive) of the deposition potential (ΔE_{alloy}) of a metal during its entry into the alloy coincides (over)
(Chemistry-Physical, TT, v. 7, no. 5)

61-20967

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Investigation. . .

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

Polukarov, Yu. M. and Gorbunova, K. M.
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Order from OTS or SLA $1.10 61-20966

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956[v. 30, no. 3, p. 515-521.
Another trans. is available from ATS $1 3.45 as ATS-76M46R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Ions, Motion.

The methods are discussed for calculating the shift in the discharge potential of metallic ions taking place as
(Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20966

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Methods ...

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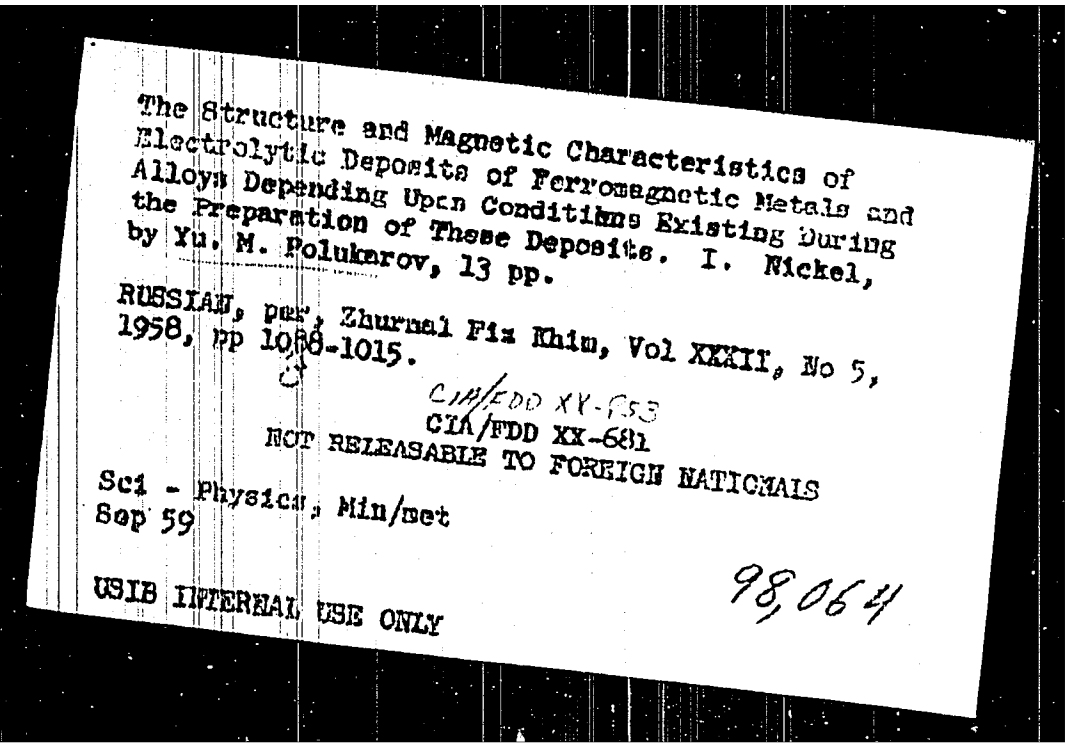

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RUSSIAN, per, Zhurnal Fiz Khim, Vol XXXII, No 5, 1958, pp 1088-1015.

CIA/FDD XX-653
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Sci - Physics, Min/met
Sep 59

98,064

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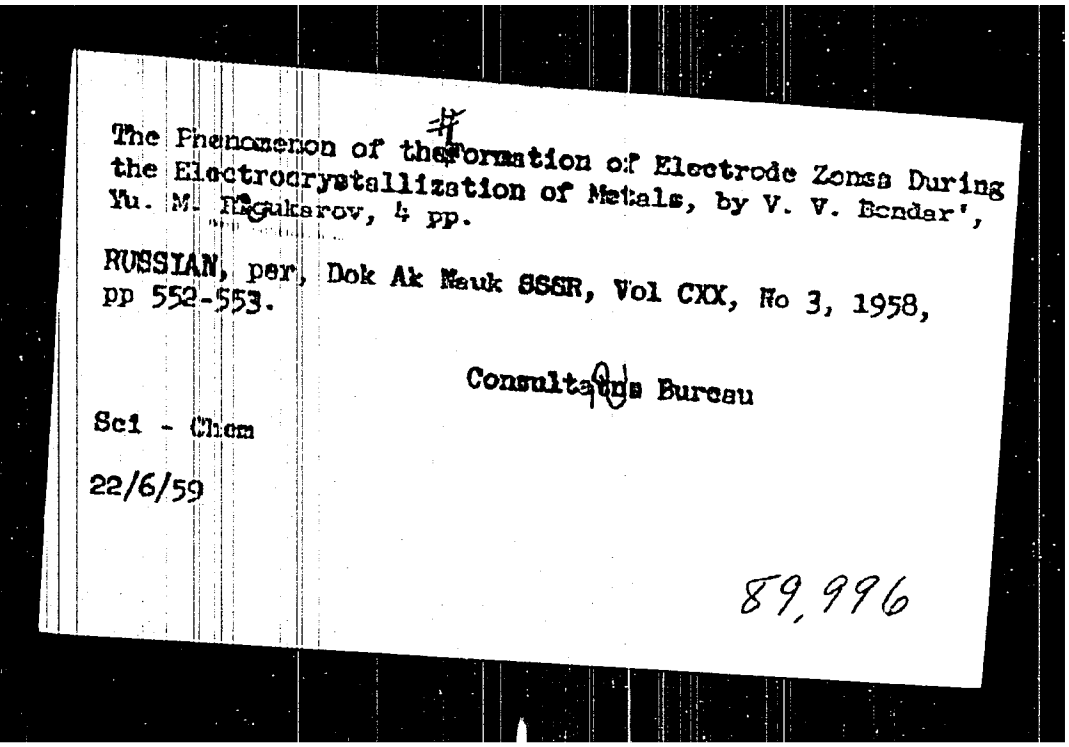

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The Phenomenon of the Formation of Electrode Zones During the Electrocrystallization of Metals, by V. V. Bonder', Yu. M. Bogukarov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 3, 1958, pp 552-553.

Consultants Bureau

Sci - Chem

22/6/59

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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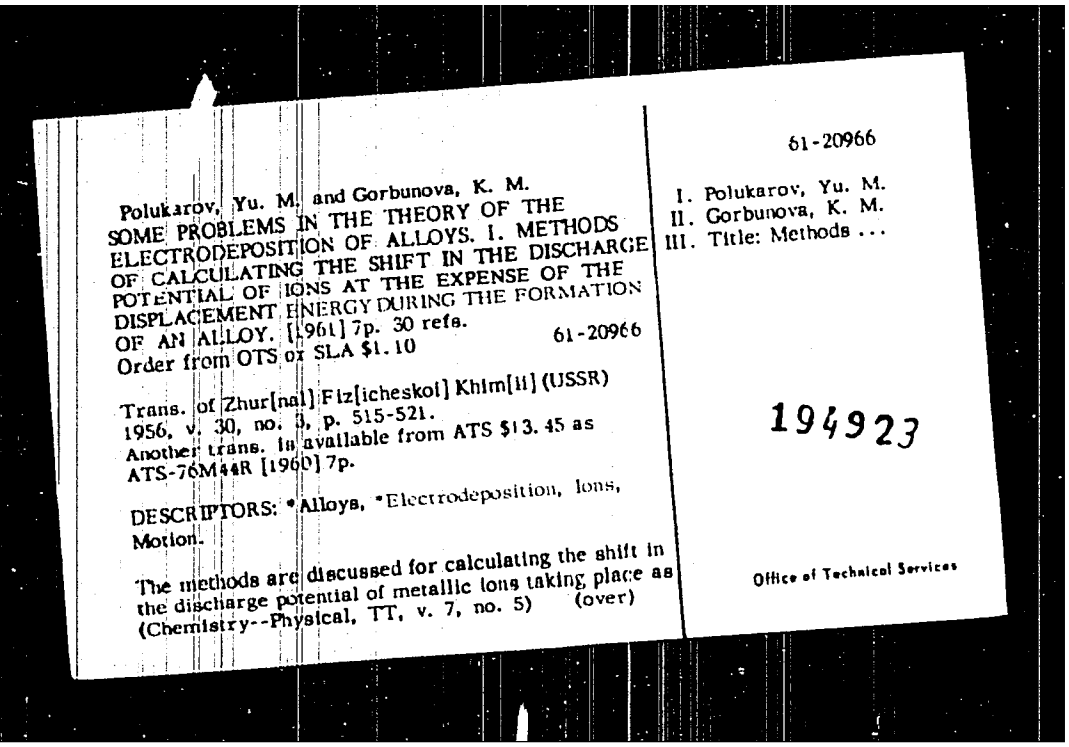

Polukarov, Yu. M. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. I. METHODS OF CALCULATING THE SHIFT IN THE DISCHARGE POTENTIAL OF IONS AT THE EXPENSE OF THE DISPLACEMENT ENERGY DURING THE FORMATION OF AN ALLOY. [1961] 7p. 30 refs.
Order from OTS or SLA $1.10 61-20966

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 3, p. 515-521.
Another trans. is available from ATS $13.45 as ATS-76M44R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Ions, Motion.

The methods are discussed for calculating the shift in the discharge potential of metallic ions taking place as
(Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20966

I. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Methods ...

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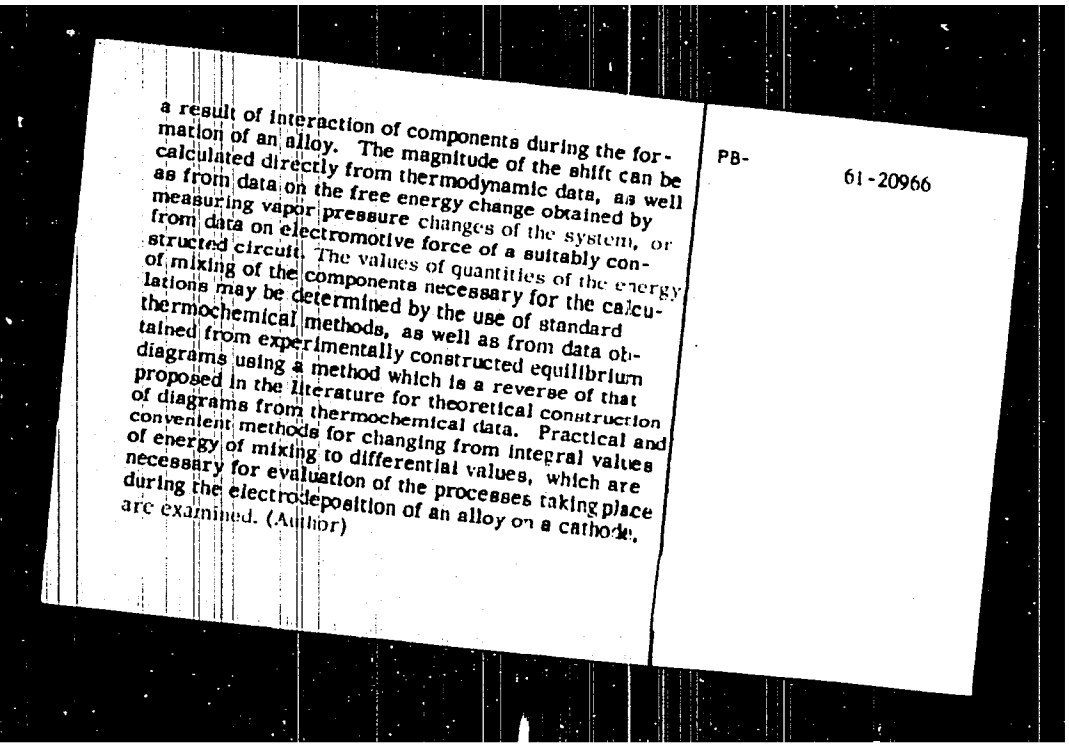

a result of interaction of components during the formation of an alloy. The magnitude of the shift can be calculated directly from thermodynamic data, as well as from data on the free energy change obtained by measuring vapor pressure changes of the system, or from data on electromotive force of a suitably constructed circuit. The values of quantities of the energy of mixing of the components necessary for the calculations may be determined by the use of standard thermochemical methods, as well as from data obtained from experimentally constructed equilibrium diagrams using a method which is a reverse of that proposed in the literature for theoretical construction of diagrams from thermochemical data. Practical and convenient methods for changing from integral values of energy of mixing to differential values, which are necessary for evaluation of the processes taking place during the electrodeposition of an alloy on a cathode, are examined. (Author)

PB- 61-20966

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Polukarov, Yu. M. and Gorbunova, K. M.
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It was established that the ennoblement (becoming more positive) of the deposition potential (ΔE_{alloy}) of a metal during its entry into the alloy coincides (Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20967

1. Polukarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Investigation. . .

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with the value calculated on the basis of data for the change in its partial thermodynamic potential. The possibility of using the data on the shift in deposition potentials for calculations in the reverse direction, i. e., for approximate computations of differential heats of solution of some unexplored systems is pointed out. An advantage of this method is the considerable simplification of the working procedure. The possibility of incorporating aluminum into the deposit during the deposition of nickel is demonstrated. (Author) (See also 61-20966)

PB- 61-20967

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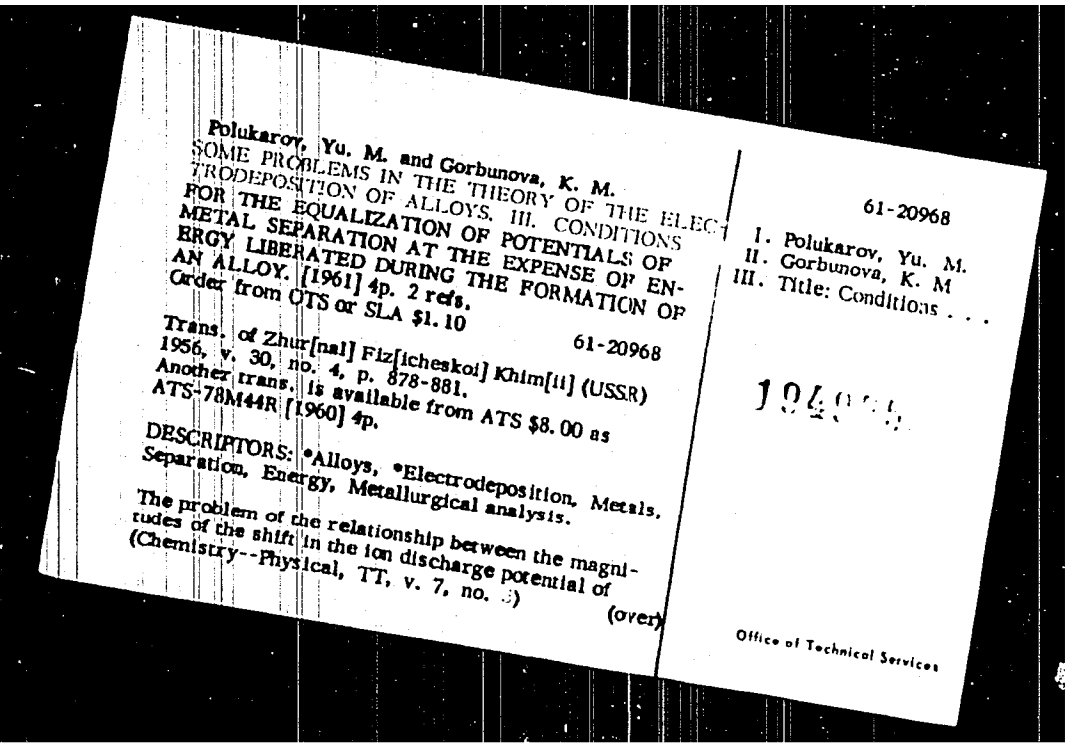

Polukarov, Yu. M. and Gorbunova, K. M.
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Order from OTS or SLA $1.10

61-20968

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30, no. 4, p. 878-881.
Another trans. is available from ATS $8.00 as ATS-78M44R [1960] 4p.

DESCRIPTORS: *Alloys, *Electrodeposition, Metals, Separation, Energy, Metallurgical analysis.

The problem of the relationship between the magnitudes of the shift in the ion discharge potential of
(Chemistry--Physical, TT, v. 7, no. 3)

(over)

61-20968
I. Polukarov, Yu. M.
II. Gorbunova, K. M
III. Title: Conditions . . .

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PB- 61-20968

metals at the expense of energy of interaction during alloying and the equalization of deposition potentials of metals is examined. It is shown that even in the presence of considerable energy of interaction and shift in the deposition potentials of metals toward the more positive side, potential equalization may not even be observed if the magnitudes of the shift for the two components are of the same order. On the basis of an investigation of the dependence of the change in the free energy of the system during the formation of an alloy on its composition it is shown that the energy of interaction may lead to equalization of deposition potentials of metals only up to a certain definite concentration of the electronegative metal in the alloy. (Author) (See also 61-20967)

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12 533 US-14

POLUKAROV Yu. M., GORBUNOVA K. M.

Some problems in the theory of the electrodeposition of alloys. Part VI. The mechanism of formation of supersaturated solid solutions and two-phase systems in the electrocrystallization of alloys

Zhur. Fiz. Khim., 32, No. 4, 762-767 (1958)

RJ-2709. $ 13.75 - English

Euratom

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

12 532 US-14

POLUKAROV Yu. M., GORBUNOVA K. M.

Some problems in the theory of the electrodeposition of alloys. Part V. Oscillographic investigation of the cathode potential in the process of deposition of an alloy (the systems copper-zinc, copper-lead, and nickel-cobalt)

Zhur. Fiz. Khim., 31, No. 12, 2682-2689 (1957)

RJ-2708. $ 12.75 - English

Euratom

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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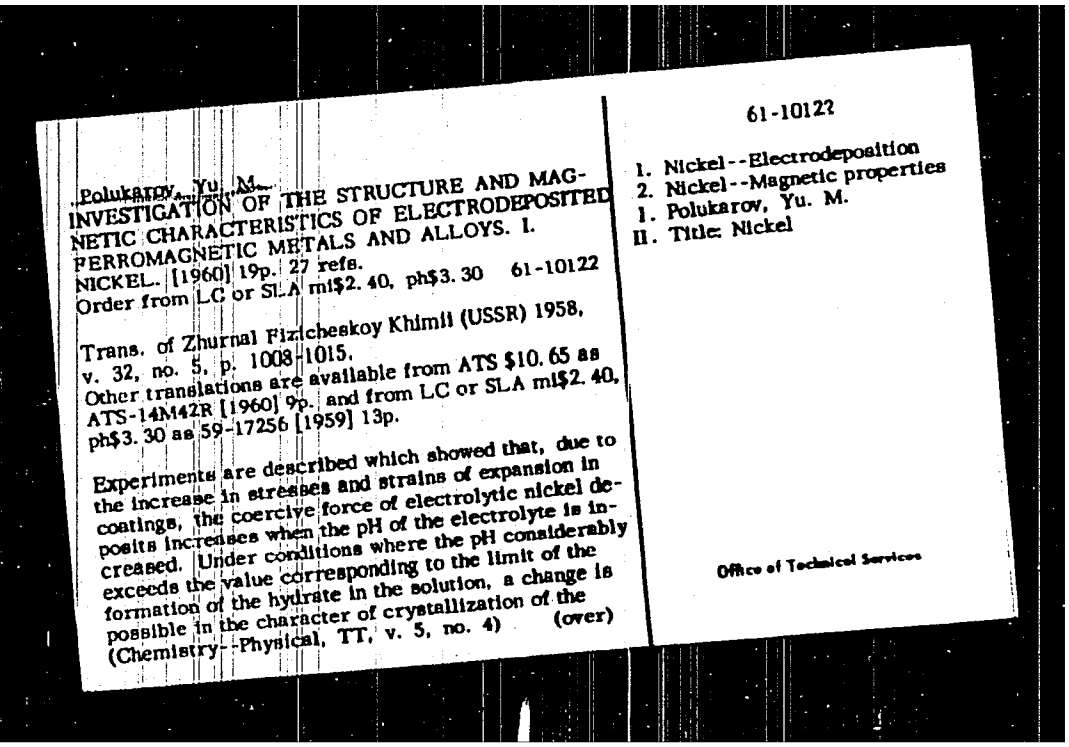

Polukarov, Yu. M.
INVESTIGATION OF THE STRUCTURE AND MAGNETIC CHARACTERISTICS OF ELECTRODEPOSITED FERROMAGNETIC METALS AND ALLOYS. I. NICKEL. [1960] 19p. 27 refs.
Order from LC or SLA mi$2.40, ph$3.30 61-10122

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 5, p. 1008-1015.
Other translations are available from ATS $10.65 as ATS-14M42R [1960] 9p. and from LC or SLA mi$2.40, ph$3.30 as 59-17256 [1959] 13p.

Experiments are described which showed that, due to the increase in stresses and strains of expansion in coatings, the coercive force of electrolytic nickel deposits increases when the pH of the electrolyte is increased. Under conditions where the pH considerably exceeds the value corresponding to the limit of the formation of the hydrate in the solution, a change is possible in the character of crystallization of the (Chemistry--Physical, TT, v. 5, no. 4) (over)

61-10122

1. Nickel--Electrodeposition
2. Nickel--Magnetic properties
I. Polukarov, Yu. M.
II. Title: Nickel

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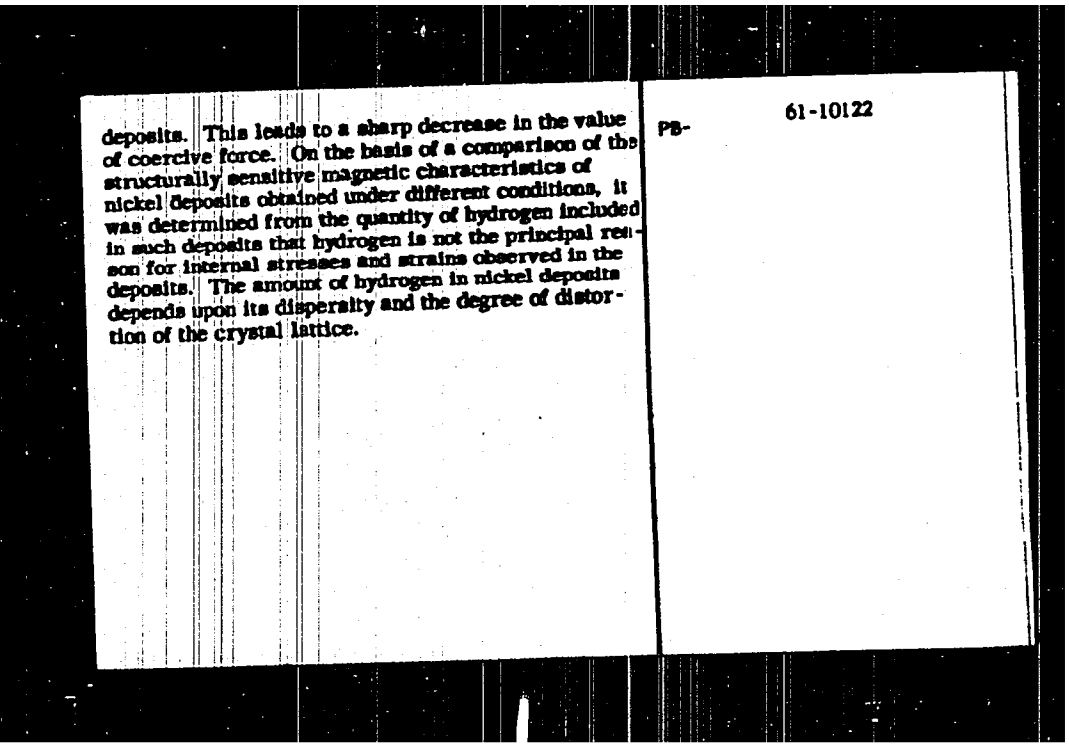

deposits. This leads to a sharp decrease in the value of coercive force. On the basis of a comparison of the structurally sensitive magnetic characteristics of nickel deposits obtained under different conditions, it was determined from the quantity of hydrogen included in such deposits that hydrogen is not the principal reason for internal stresses and strains observed in the deposits. The amount of hydrogen in nickel deposits depends upon its disperaity and the degree of distortion of the crystal lattice.

PB- 61-10122

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

For the Development and Consolidation of Veterinary Education by Correspondence, by V. M. Koropov, F. S. Polukhin.

RUSSIAN, per, Veterinariya, Vol XXXVI, No 2, Feb 1959, pp 11-13. CIA 9040588

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

Results of Working With the Three-Cutter Chisel in the Groznefti Concern, by N. S. Polukhin,

RUSSIAN, no per, Neft Khoz, Vol XXXIV, No 6, 1956, pp 25-27.

Tech and Comm Tr
$30.00

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Economic - Petroleum drilling
Nov 56 CIS

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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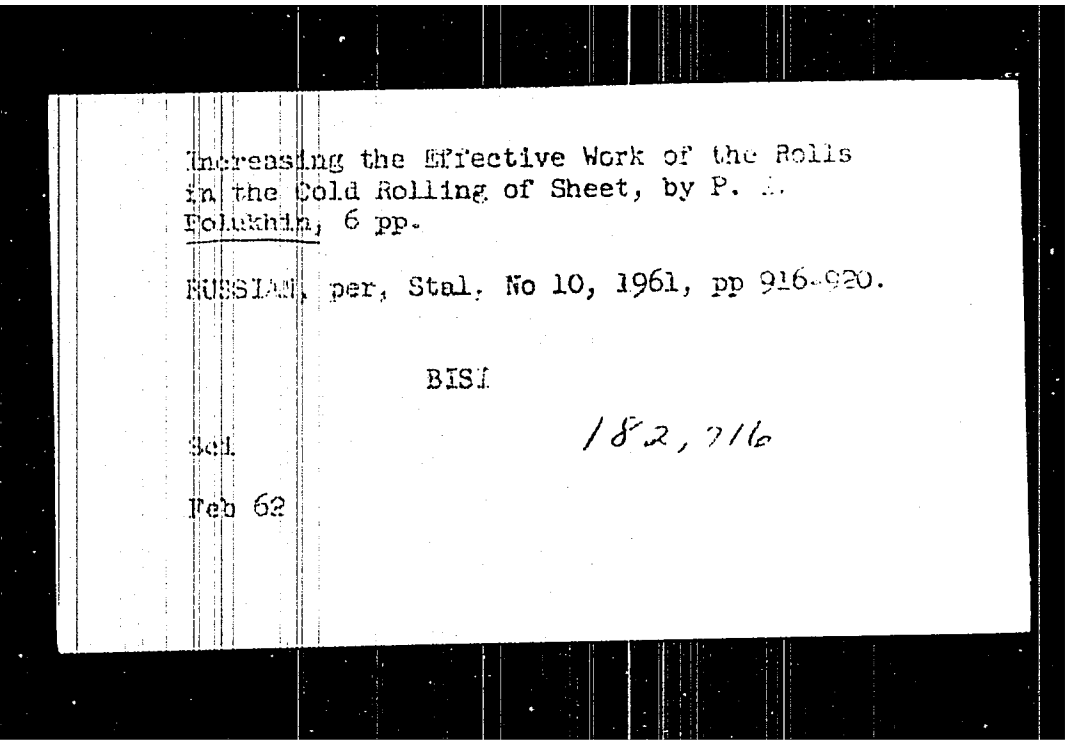

Increasing the Effective Work of the Rolls in the Cold Rolling of Sheet, by P. I. Polukhin, 6 pp.

RUSSIAN, per, Stal, No 10, 1961, pp 916-920.

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Feb 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201280031-1

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A Study of Deformation in Oblique Beam Roll Passes, by P. I. Polukhin, O. S. Popov, 5 pp.

RUSSIAN, Mekh. Stal., No 12, 1960, pp 1108-1112.

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May 61

152, 438

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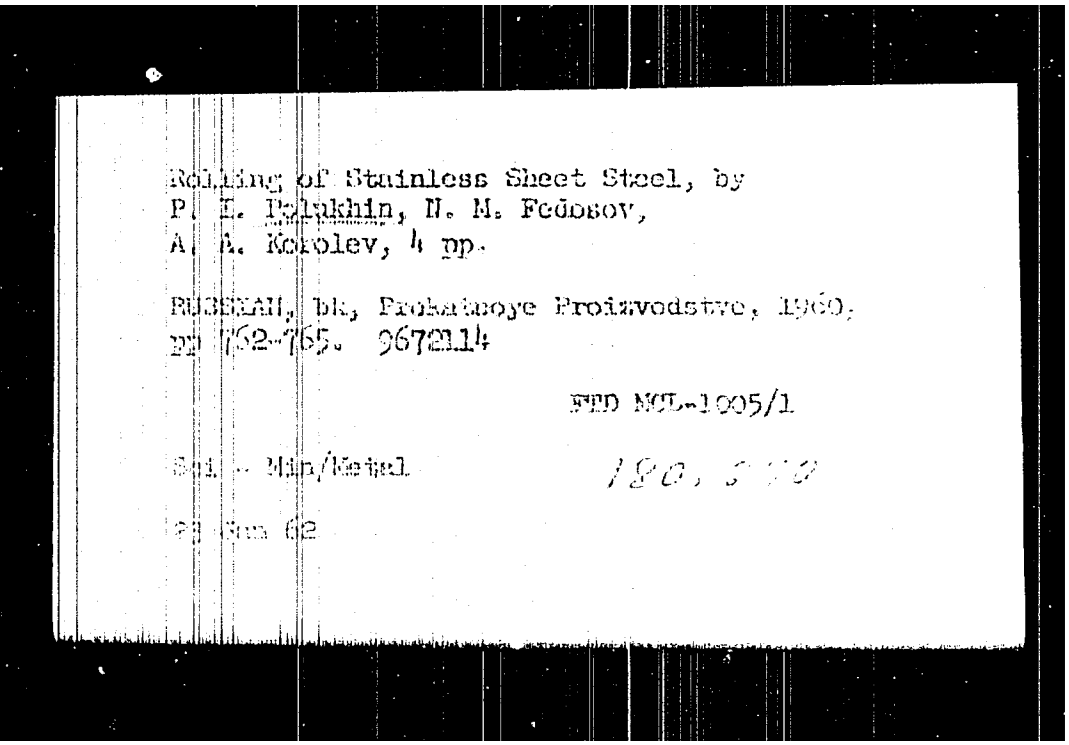

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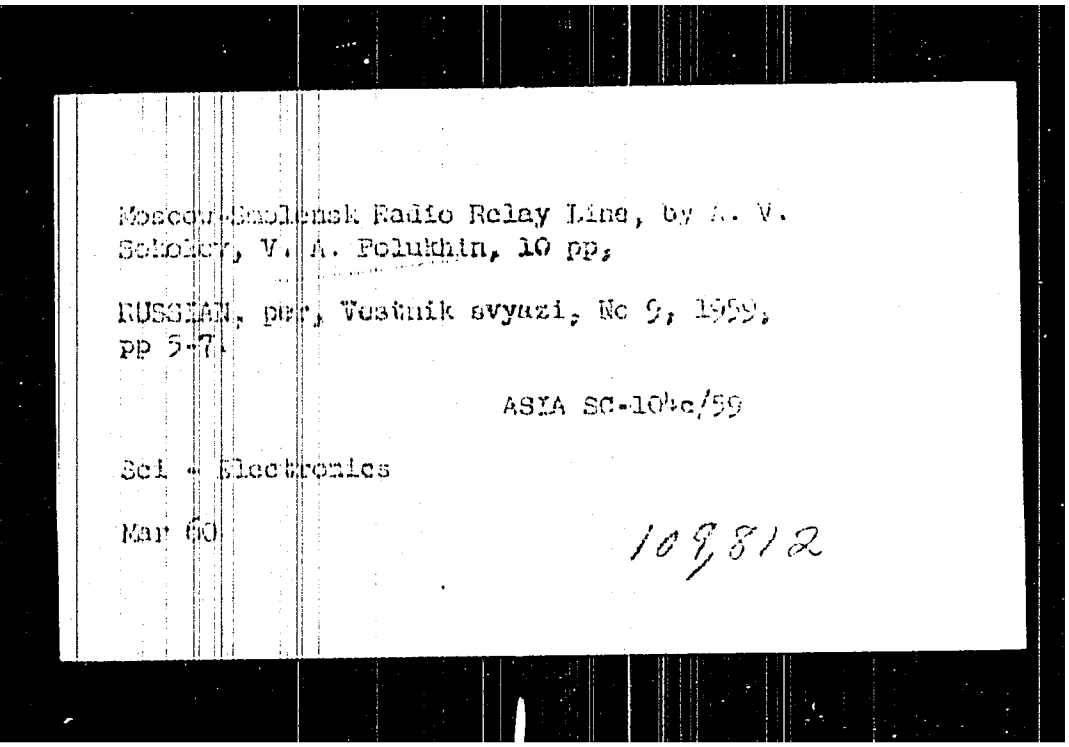

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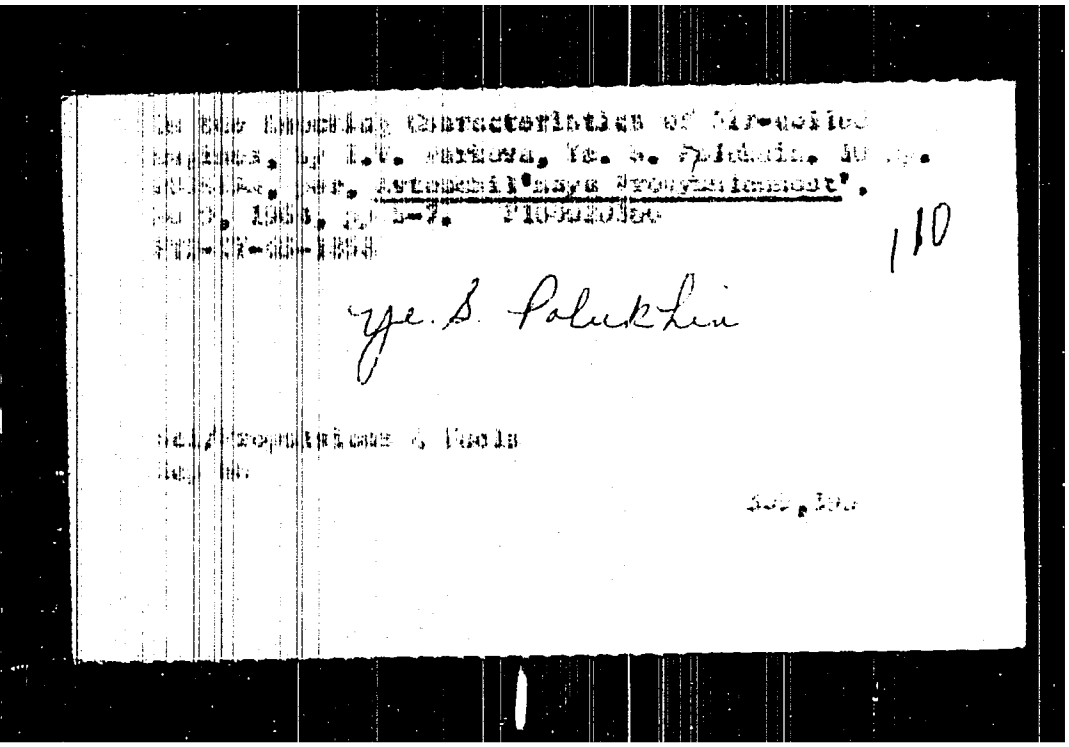

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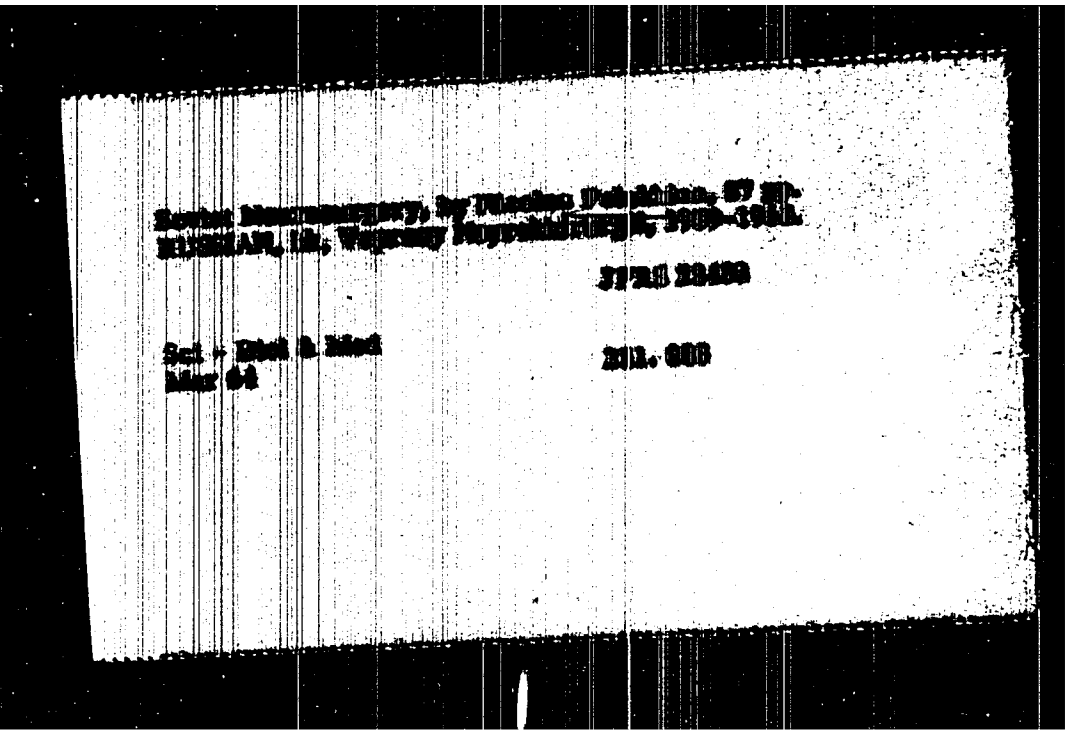

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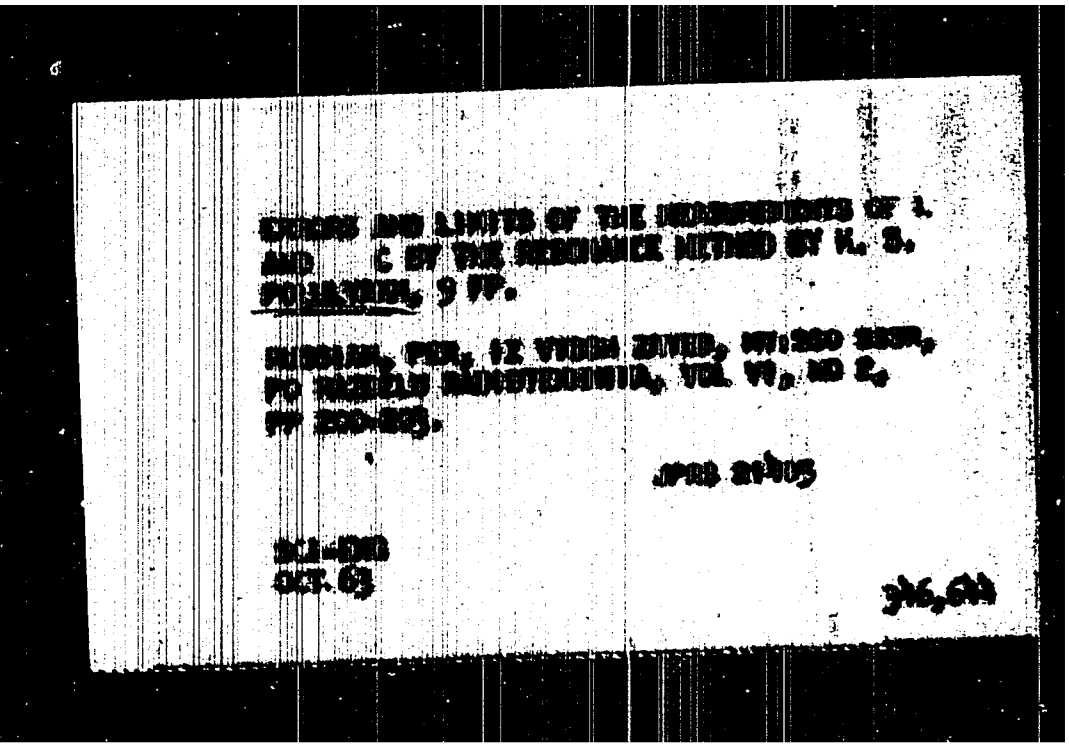

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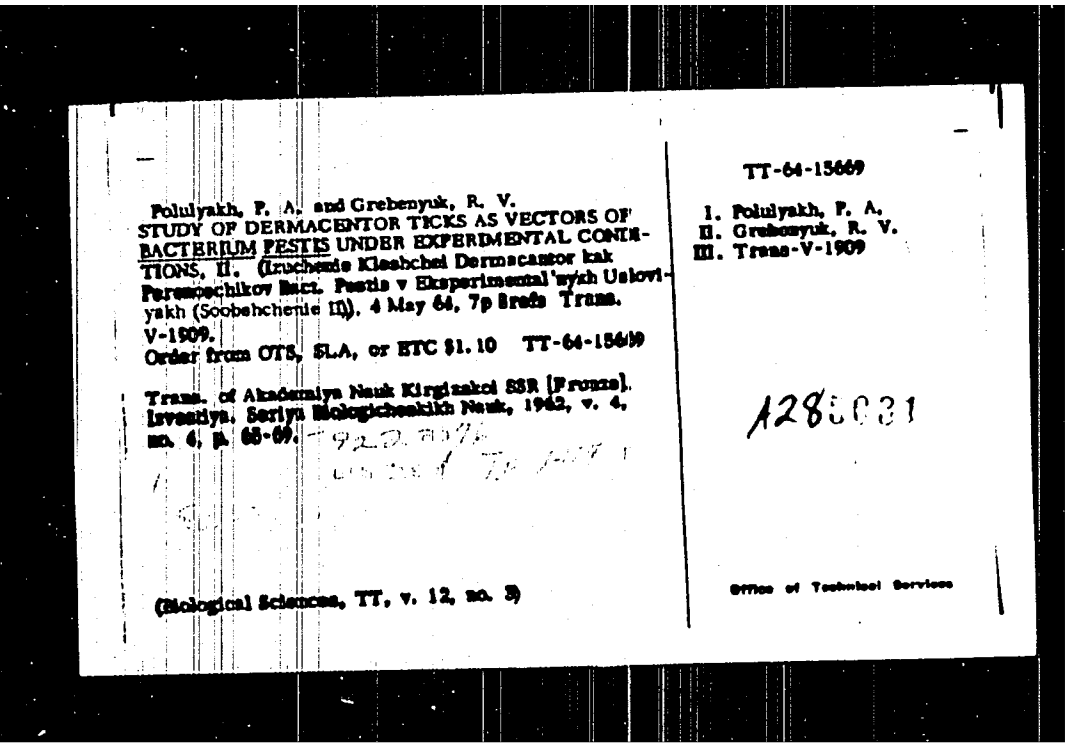

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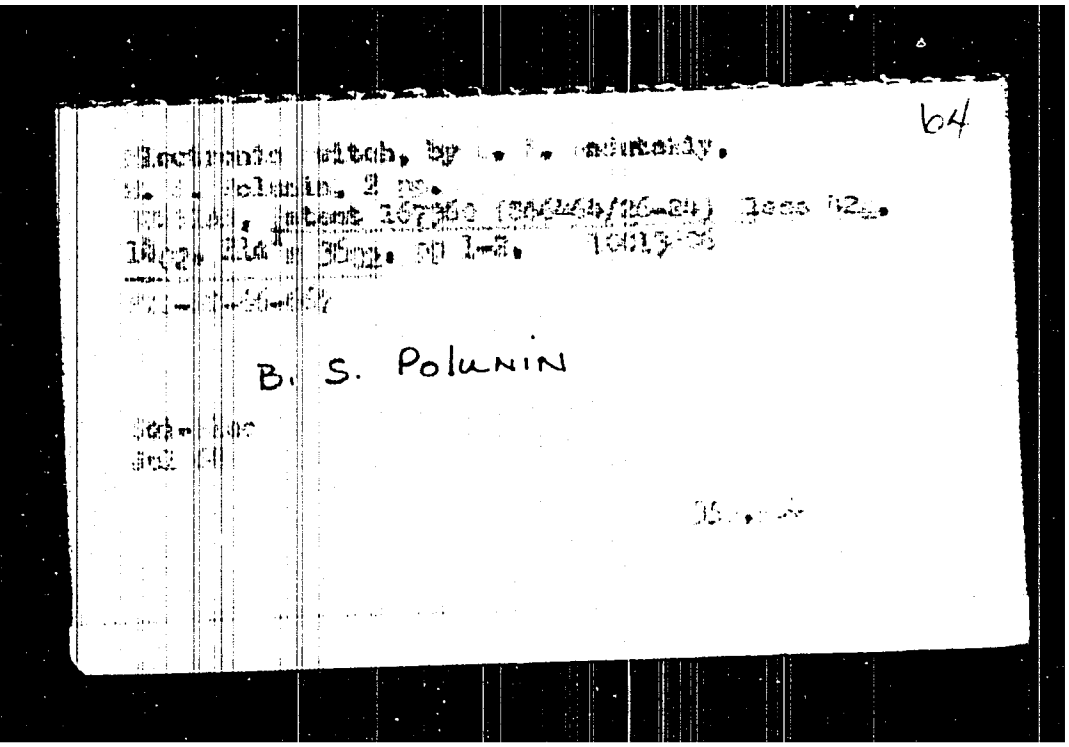

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